CALIFORNIA REGIONAL WATER QUALITY CONTROL BOARD
COLORADO RIVER BASIN REGION

NEW RIVER @ THE INTERNATIONAL BOUNDARY - CALEXICO, CALIFORNIA
WATER ANALYSIS RESULTS

FIELD RESULTS	HYDROLAB – YSI 6600				IN-HOFF CONE		
TIME	TEMP (°C)	PH	DISSOLVED OXYGEN (mg/l)	SPECIFIC CONDUCTANCE (umhos/cm)	Settleable Solids (ml/l) 10 min	30 min	60 min
07:00	22.4	7.63	0.8	4500	0.3	0.3	0.3
08:00	22.3	7.62	0.9	4509	0.2	0.2	0.2
09:00	22.4	7.61	1.0	4531	0.1	0.1	0.1
10:00	22.4	7.61	1.3	4520	0.1	0.1	0.1
11:00	22.6	7.62	1.6	4520	0.1	0.1	0.1
12:00	22.8	7.63	1.8	4530	0.1	0.1	0.2
13:00	23.2	7.63	1.9	4486	0.1	0.1	0.1
14:00	23.6	7.63	1.7	4428	<0.1	<0.1	<0.1
15:00	24.1	7.58	0.7	4401	0.1	0.1	0.1
16:00	24.4	7.61	0.6	4411	0.2	0.2	0.2
17:00	24.6	7.60	0.5	4395	0.3	0.4	0.5
18:00	24.7	7.57	0.3	4374	0.2	0.5	0.5
19:00	24.7	7.59	0.3	4315	0.2	0.2	0.5
20:00	24.5	7.64	0.3	4362	0.2	0.3	0.5
21:00	24.4	7.55	0.2	4345	0.2	0.3	0.4
22:00	24.0	7.63	0.3	4350	0.2	0.3	0.3
23:00	23.5	7.67	0.3	4332	0.3	0.4	0.4
24:00	23.2	7.61	0.3	4320	0.3	0.4	0.6
01:00	23.0	7.61	0.5	4352	0.3	0.5	0.6
02:00	22.7	7.75	0.4	4343	0.3	0.5	0.5
03:00	22.3	7.64	0.5	4377	0.1	0.2	0.3
04:00	22.1	7.62	0.5	4329	0.2	0.2	0.4
05:00	22.0	7.66	0.4	4364	0.1	0.2	0.3
06:00	22.1	7.65	0.5	4392			
APRIL AVERAGE	23.2	7.62	0.7	4408	0.1	0.1	0.1
LAST 12 MONTHS AVE.	22.15	7.75	1.51	4,042	0.11	0.14	0.15

FIELD OBSERVATIONS:

0700 – 1000 Ambient temperature ranged from 16 °C to 35 °C. Cloudy sky. Watercolor is greenish. There is a mild septic odor. No foam. Thermometer was exposed to direct sunlight.
1100 – 1200 No changes. Ambient temperature is 35 °C. Clear sky. Slight breeze. No other change
1200 – 1400 Ambient temperature is 35 °C. No other changes. Thermometer moved to shadow area.
1500 – 1900 No changes. Watercolor is olive green. Ambient temperature ranged from 34 °C to 24 °C.
2000 – 2200 Ambient temperature ranged from 28 °C to 24 °C. Windy. No other changes observed.
2300 – 0100 Ambient temperature ranged from 24 °C to 20 °C. Windy. No other changes were observed except lot of trash and particulate matter was observed around midnight on the river.
0100 – 0600 Ambient temperature ranged from 20 °C to 15 °C. Windy. No other changes observed.

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E. S. BABCOCK & SONS, INC. LABORATORY			FECAL COLIFORM RESULTS (MPN/100ML)			
COLLECTION TIME	STORET CODE	ANALYSIS METHOD	APRIL 2002	12 MONTHS AVE	MAX VALUE	MIN VALUE
11:00	316315	Multiple Tube Fermentation	70,000	231,750	800,000	11,000
12:00	316315	Multiple Tube Fermentation	300,000	482,667	2,400,000	20,000
13:00	316315	Multiple Tube Fermentation	70,000	451,917	1,300,000	20,000
13:30	316315	Multiple Tube Fermentation	50,000	217,500	700,000	20,000
14:00	316315	Multiple Tube Fermentation	170,000	417,750	1,300,000	23,000
3:00	316315	Multiple Tube Fermentation	3,000,000	369,167	3,000,000	300,000
4:00	316315	Multiple Tube Fermentation	1,400,000	208,333	1,400,000	130,000
5:00	316315	Multiple Tube Fermentation	500,000	172,500	1,100,000	170,000
5:30	316315	Multiple Tube Fermentation	1,100,000	260,000	1,300,000	220,000
6:00	316315	Multiple Tube Fermentation	1,100,000	192,500	1,100,000	110,000

E. S. BABCOCK & SONS, INC. LABORATORY			CONSTITUENT RESULTS (mg/l)[1]			
CONSTITUENT	METHOD	DETECTION LEVEL	APRIL 2002	12 MONTHS AVERAGE	MAX[1] VALUE	MIN[1] VALUE
MBAS	SM 5540C	0.025	4.4	2.523	10.74	0.06
Ortho Phosphate Phosphorus	SM 4500-P E	0.05	1.4	2.223	5.37	1.40
Total Phosphorus	SM 4500-PB E		0.7	0.123	0.77	0.70
Phenol	420.2	0.02	0.016	0.004	0.02	0.00
Cyanide	SM4500-CNE	0.01	ND	0.009	0.08	0.01
Ammonia - Nitrogen (NH_3-N)	SM4500-NH3	0.1	4.7	7.630	19.50	0.57
Nitrate - Nitrogen (NO_3-N)	300	0.2	ND	0.078	0.34	0.10
Nitrite - Nitrogen (NO_2-N)	SM4500-NO2	0.1	ND	0.042	0.16	0.05
Hardness as ($CaCO_3$)	200.7	3	900	735	940	167
Total Alkalinity as ($CaCO_3$)	SM 2320 B	1	280	317	459	280
Bicarbonate (HCO_3)	SM 2320 B	1	340	356	560	340
Total Filter Residue (TDS)	SM 2540C	10	3000	2638	3100	1640
Total Suspended Solids	SM 2540D	10	38	37.1	86	16
Turbidity	SM 2130B	0.1	18	25.7	53	6
BOD	SM 5210B	20	ND	16.1	32	12
COD	SM 5220D	10	98	68.4	132	35

E. S. BABCOCK & SONS, INC. LABORATORY			TRACE METALS RESULTS (ug/l)[1]			
TRACE METALS	METHOD	DETECTION LEVEL	APRIL 2002	12 MONTH AVERAGE	MAX[1] VALUE	MIN[1] VALUE
As-Arsenic	200.8	0.005	7.3	4.6	10	3
Cd-Cadnium	200.8	0.002	ND	ND	ND	ND
Cr-Chromium	200.8	0.02	ND	ND	ND	ND
Cu-Copper	200.8	0.01	ND	20.2	86	10
Pb-Lead	200.8	0.01	ND	ND	ND	ND
Se-Selenium	200.8	0.005	9.2	ND	22	9
Zn-Zinc	200.8	0.01	30	84.7	212	10
Hg-Mercury	SM 3112B	0.0002	ND	ND	ND	ND

[1] Composite of eight water samples collected hourly.

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E. S. BABCOCK & SONS LAB. CONSTITUENT[2] (ug/l)	STORET CODE	APRIL – 02 RESULTS (ug/l)							
		9:00	12:00	15:00	18:00	21:00	24:00	3:00	6:00
Benzene	34030	ND[3]	ND	ND	ND	ND	ND	ND	ND
Bromobenzene	81555	ND	ND	ND	ND	ND	ND	ND	ND
Bromochloromethane	A-012	ND	ND	ND	ND	ND	ND	ND	ND
Bromodichloromethane	32101	ND	ND	ND	ND	ND	ND	ND	ND
Bromoform	32104	ND	ND	ND	ND	ND	ND	ND	ND
Bromomethane (Methyl Bromide)	34413	ND	ND	ND	ND	ND	ND	ND	ND
n-Butylbenzene	A-010	ND	ND	ND	ND	ND	ND	ND	ND
sec-Butylbenzene	77350	ND	ND	ND	ND	ND	ND	ND	ND
tert-Butylbenzene	77353	ND	ND	ND	ND	ND	ND	ND	ND
Carbon Tetrachloride	32102	ND	ND	ND	ND	ND	ND	ND	ND
Chlorobenzene (Monochlorobenzene)	34301	ND	ND	ND	ND	ND	ND	ND	ND
Chloroethane	34311	ND	ND	ND	ND	ND	ND	ND	ND
Chloroform	32106	0.62	ND	0.76	0.83	ND	1.2	0.95	0.93
Chloromethane (Methyl Chloride)	34418	ND	ND	ND	ND	ND	ND	ND	ND
o-Chlorotoluene (2-Chlorotolulene)	A-008	ND	ND	ND	ND	ND	ND	ND	ND
p-Chlorotoluene (4-Chlorotolulene)	A-009	ND	ND	ND	ND	ND	ND	ND	ND
Dibromochloromenhane	32105	ND	ND	ND	ND	ND	ND	ND	ND
Dibromomethane	77596	ND	ND	ND	ND	ND	ND	ND	ND
1,2-Dichlorobenzene (o-DCB)	34536	ND	ND	ND	ND	ND	ND	ND	ND
1,3-Dichlorobenzene (m-DCB)	34566	ND	ND	ND	ND	ND	ND	ND	ND
1,4-Dichlorobenzene (p-DCB)	34571	0.62	0.5	0.65	0.9	0.99	1.00	0.80	0.78
Dichlorodifluoromethane (Freon 12)	34668	ND	ND	ND	ND	ND	ND	ND	ND
1,1-Dichloroethane (1,1-DCA)	34496	ND	ND	ND	ND	ND	ND	ND	ND
1,2-Dichloroethane (1,2-DCA)	34531	ND	ND	ND	ND	ND	ND	ND	ND
1,1-Dichloroethylene (1,1-DCE)	34501	ND	ND	ND	ND	ND	ND	ND	ND
cis-1,2-Dichloroethylene	77093	ND	ND	ND	ND	ND	ND	ND	ND
trans-1,2-Dichloroethylene	34546	ND	ND	ND	ND	ND	ND	ND	ND
1,2-Dichloropropane	34541	ND	ND	ND	ND	ND	ND	ND	ND
1,3-Dichloropropane	77173	ND	ND	ND	ND	ND	ND	ND	ND
1,2-Dichloropropane	77170	ND	ND	ND	ND	ND	ND	ND	ND
1,1-Dichloropropylene	77168	ND	ND	ND	ND	ND	ND	ND	ND

[2] Constituents were analyzed using USEPA Method 524.2; all units are reported in micrograms per liter; the detected limit is reported as 0.5 for all the constituents; except as noted.
[3] ND = Concentration is reported below the detected limit.

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E. S. BABCOCK & SONS LAB. CONSTITUENT[4] (ug/l)	STORET CODE	APRIL – 02 RESULTS (MG/L)							
		9:00	12:00	15:00	18:00	21:00	24:00	3:00	6:00
cis- & trans-1,3-Dichloropropylene	34561	ND[5]	ND	ND	ND	ND	ND	ND	ND
Ethyl benzene	34371	ND	ND	ND	ND	ND	ND	ND	ND
Ethylene dibromide (EDB)	77651	ND	ND	ND	ND	ND	ND	ND	ND
Hexachlorobutadiene	34391	ND	ND	ND	ND	ND	ND	ND	ND
Isopropylbenzene (Cumeme)	77223	ND	ND	ND	ND	ND	ND	ND	ND
p-Isopropyltoluene (p-Cymene)	A-011	ND	ND	ND	ND	0.93	1.3	0.90	0.91
Methylene chloride (Dichloromethane)	34423	ND	ND	ND	ND	ND	0.58	0.65	0.77
Methyl Ethyl Ketone[6]	81595	ND	ND	ND	ND	ND	ND	ND	ND
Methyl Isobutyl Ketone[7]	81596	ND	ND	ND	ND	ND	ND	ND	ND
Methyl tert-Butyl Ether (MTBE)	A-030	ND	ND	ND	ND	ND	ND	ND	ND
Napthalene	34696	ND	ND	ND	ND	ND	ND	ND	ND
n-Propylbenzene	77224	ND	ND	ND	ND	ND	ND	ND	ND
Styrene	77128	ND	ND	ND	ND	ND	ND	ND	ND
1,1,1,2-Tetrachloroethane	77562	ND	ND	ND	ND	ND	ND	ND	ND
1,1,2,2-Tetrachloroethane	34516	ND	ND	ND	ND	ND	ND	ND	ND
Tetrachloroethylene (PCE)	34475	ND	ND	ND	ND	ND	ND	ND	ND
Toluene	34010	1.4	0.82	1.5	1.3	1.8	2.5	1.9	1.8
1,2,3-Trichlorobenzene	77613	ND	ND	ND	ND	ND	ND	ND	ND
Total Trihalomethanes		0.62	ND	0.76	0.83	ND	1.2	0.95	0.93
1,2,4-Trichlorobenzene	34551	ND	ND	ND	ND	ND	ND	ND	ND
1,1,1-Trichloroethane (1,1,1-TCA)	34506	ND	ND	ND	ND	ND	ND	ND	ND
1,1,2-Trichloroethane (1,1,2-TCA)	34511	ND	ND	ND	ND	ND	ND	ND	ND
Trichloroethylene (TCE)	39180	ND	ND	ND	ND	ND	ND	ND	ND
1,2,3-Trichloropropane	77443	ND	ND	ND	ND	ND	ND	ND	ND
Trichlorofluoromethane (Freon 11)	34488	ND	ND	ND	ND	ND	ND	ND	ND
1,2,4-Trimethylbenzene	77222	ND	ND	ND	ND	ND	ND	ND	ND
1,3,5-Trimethylbenzene	77226	ND	ND	ND	ND	ND	ND	ND	ND
1,1,2-Trichlorotrifluoroethane (Freon 13)	81611	ND	ND	ND	ND	ND	ND	ND	ND
Vinyl chloride (VC)	39175	ND	ND	ND	ND	ND	ND	ND	ND
m,p-Xylenes	A-014	ND	ND	ND	0.65	ND	0.57	ND	ND
o-Xylene	77135	ND	ND	ND	ND	ND	ND	ND	ND
Total Xylenes		ND	ND	ND	0.94	ND	0.57	ND	ND

[4] Constituents were analyzed using USEPA Method 524.2; all units are reported in micrograms per liter; the detected limit is reported as 0.5 for all the constituents; except as noted.
[5] ND = Concentration is reported below the detected limit.
[6] Detection Limit is as reported 2.0
[7] Detection Limit is as reported 2.0